

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Withdrawn) A method of making an aluminum or aluminum alloy sputter target adapted for sputtering of a flat panel display comprising providing molten Al or Al alloy, adding to said molten Al or Al alloy an amount of between about 0.01-2.00 wt % Si to form a molten alloy mixture, forwarding said molten alloy mixture through a filter element to remove inclusions therefrom, and allowing said filtered alloy mixture to solidify.
2. (Withdrawn) Method as recited in claim 1 wherein said filter element is a sintered ceramic filter.
3. (Withdrawn) Method as recited in claim 2 wherein said filter element is a sintered alumina having a grit size of about 2 to about 14.
4. (Withdrawn) Method as recited in claim 3 wherein said filter element has a grit size of about 8.
5. (Withdrawn) Method as recited in claim 1 wherein said Cu is present in said molten alloy in an amount of about 0.01 to 3.00%.
6. (Withdrawn) Method as recited in claim 1 wherein said molten alloy mixture is Al 0.5 Cu 0.5 Si.
7. (Withdrawn) Method as recited in claim 6 wherein after said forwarding of said molten alloy mixture through said filter element said mixture is substantially free of inclusions of the size of about 400  $\mu\text{m}$  or greater therein.
8. (Withdrawn) In a method of sputter coating a flat panel display from an Al or Al alloy target, the improvement comprising providing a target that is substantially free of macroparticles of the size of 400  $\mu\text{m}$  or greater therein.

9. (Withdrawn) A method as recited in claim 8 wherein said Al target comprises an amount of Si therein present in an amount of about 0.01-2.00 wt %.

10. (Withdrawn) A method as recited in claim 9 wherein said Al target further comprises an amount of Cu therein present in an amount of about 0.01 to 3.00 wt %.

11. (Withdrawn) A method as recited in claim 10 wherein said target is Al 0.5 Si 0.5 Cu.

12. (Withdrawn) Sputter target comprising Al or Al alloy sputter material, said target having a sputter track area adapted for increased consumption of said sputter material therein, said sputter track being substantially free of inclusions of the size of 400  $\mu$ m and greater.

13. (Withdrawn) Sputter target as recited in claim 12 comprising Cu present in an amount of about 0.01-3.00 wt %.

14. (Withdrawn) Sputter target as recited in claim 13 further comprising Si present in an amount of 0.01 to 2.0 wt %.

15. (Withdrawn) Sputter target as recited in claim 14 wherein said target is Al 0.5 Cu 0.5 Si.

16. (Cancelled)

17. (Cancelled)

18. (Withdrawn) Sputter target being substantially free of inclusions of the size of 400  $\mu$ m and greater.

19. (Withdrawn) In a cathodic sputter coating system of the type having a cathode and an anode, a sputter target operatively associated with said cathode and a flat panel display substrate proximate said anode for coating of said substrate by material dislodged from said target, said system operating at a power density of about 16 W/cm.sup.2 and greater, the improved method comprising sputtering a target comprising a metal or metal alloy in said

system, said target being substantially free of inclusion defects on the size of 800  $\mu\text{m}$  and greater therein.

20. (Withdrawn) Method as recited in claim 19 wherein said target is Al or Al alloy.

21. (Withdrawn) Method as recited in claim 20 wherein said target further comprises Cu therein, present in an amount of about 0.01-3.00 wt %.

22. (Withdrawn) Method as recited in claim 20 wherein said target further comprises Si therein, present in an amount of about 0.01-2.00 wt %

23. (Withdrawn) Method as recited in claim 22 wherein said target is Al 0.5 Cu 0.5 Si.

24. (Withdrawn) Method as recited in claim 19 wherein said target is substantially free of inclusion defects therein on the size of 400  $\mu\text{m}$  and greater.

25. (Currently amended) Sputter target as recited in claim [[17]] 27, wherein said sputter target is an alloy mixture comprising aluminum or aluminum alloy and an amount of Si therein present in an amount of about 0.01 – 2.00 wt%.

26. (Previously presented) Sputter target as recited in claim 25 further comprising Cu present in an amount of about 0.01 – 3.00 wt%.

27. (Currently amended) Sputter target comprising a face area of target material to be sputtered onto a desired substrate, said target material being substantially free of inclusions in said target material of the size of 800  $\mu\text{m}$  and greater and wherein said target material includes a sputter track having a sputter track area adapted for increased consumption of said target material thereat during sputtering, said sputter track having inclusions of the size of between 100  $\mu\text{m}$  to 400  $\mu\text{m}$  therein and being substantially free of inclusions therein of the size of 400  $\mu\text{m}$  and greater.

28. (New) Sputter target as recited in claim 27 wherein said target material within said face area and not within said sputter track area has inclusions of the size between 100  $\mu\text{m}$  to 800  $\mu\text{m}$  therein.

29. (New) A method of making an aluminum or aluminum alloy sputter target adapted for sputtering of a flat panel display, the sputter target comprising a face area of target material to be sputtered onto a desired substrate and a sputter track area adapted for increased consumption of said target material thereat during sputtering, the method comprising:

providing molten Al or Al alloy,

degassing said molten Al or Al alloy;

filtering said molten alloy mixture through a filter element to remove inclusions therefrom;

allowing said filtered alloy mixture to solidify in a casting mold to form an Al or Al alloy ingot;

forming a sputter target from said Al or Al alloy ingot;

testing said sputter target for inclusions in said sputter material, wherein the sputter target is rejected if target material inclusions of the size 400  $\mu\text{m}$  and greater are present in the sputter track area and the sputter target is accepted if the target has inclusions of the size smaller than 400  $\mu\text{m}$  therein and is substantially free of inclusions therein of the size of 400  $\mu\text{m}$  and greater.

30. (New) Method as recited in claim 29 further comprising rejecting the sputter target if target inclusions of the size 800  $\mu\text{m}$  and greater are present in said target material within said face area but not within said sputter track area non-sputter track areas and accepting the sputter target if the target has inclusions of the size smaller than 800  $\mu\text{m}$  in said target material within said face area but not within said sputter track area non-sputter track areas.

31. (New) Method as recited in claim 29 wherein said filter element is a sintered ceramic filter.

32. (New) Method as recited in claim 29 wherein said filter element is a sintered alumina having a grit size of about 2 to about 14.

33. (New) Method as recited in claim 29 wherein said filter element has a grit size of about 8.

34. (New) Method as recited in claim 29 wherein Cu is present in said molten alloy in an amount of about 0.01 to 3.00%.

35. (New) Method as recited in claim 33 further comprising adding to said molten Al or Al alloy an amount of between about 0.01-2.00 wt % Si to form a molten alloy mixture.

36. (New) Method as recited in claim 34 wherein said molten alloy mixture is Al 0.5 Cu 0.5 Si.